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(71) Applicant (for DE only): PHILIPS INTELLECTUAL
PROPERTY & STANDARDS GMBH [DE/DE]; Stein-
damm 94, 20099 Hamburg (DE).

(71) Applicant (for all designated States except DE, US):
KONINKLIJKE PHILIPS ELECTRONICS N. V.
[NL/NL]; Groenewoudseweg 1, NL-5621 BA Eindhoven
(NL).

(72) Inventors; and

(75) Inventors/Applicants (for US only): MEETZ, Kirsten
[DE/DE]; c/o Philips Intellectual Property &, Standards
GmbH Weisshausstr. 2, 52066 Aachen (DE). SCHULZ,
Heinrich [DE/DE]; c/o Philips Intellectual Property &,
Standards GmbH Weisshausstr. 2, 52066 Aachen (DE).

VON BERG, Jens [DE/DE]; c/o Philips Intellectual Prop-
erty &, Standards GmbH Weisshausstr. 2, 52066 Aachen
(DE). SABCZYNSKI, Joerg [DE/DE]; c/o Philips In-
tellectual Property &, Standards GmbH Weisshausstr. 2,
52066 Aachen (DE).

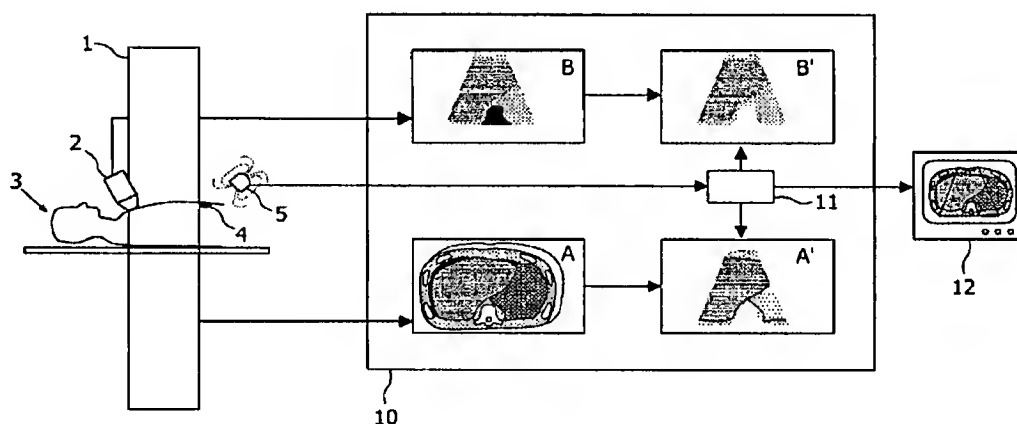
(74) Agents: VOLMER, Georg et al.; Philips Intellectual
Property &, Standards GmbH Weisshausstr. 2, 52066
Aachen (DE).

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(54) Title: DEVICE AND PROCESS FOR MULTIMODAL REGISTRATION OF IMAGES



(57) Abstract: The invention relates to a device and a process, with which images of different imaging methods can be registered, for example preoperatively obtained 3D X-ray images (A) and intra operatively obtained ultrasound images (B). First transformed images (A', B') are then generated in a data processing device (10), which are aligned to each other with regard to the peculiarities of each imaging method. Particularly from the three dimensional CT-image (A), can be generated a two dimensional image (A') which adheres to the characteristic means of representation of an ultrasound system, while shaded areas behind bones and/or gas-filled volumes can be blended out. With a feature-based registration of the transformed images (A', B') errors are avoided, which are traced back to artifacts and peculiarities of the respective imaging methods.

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